

What is claimed is:

1. A protein defined in the following (A) or (B):

(A) a protein which has the amino acid sequence of  
SEQ ID NO: 2 in Sequence Listing;

5 (B) a protein which has the amino acid sequence of  
SEQ ID NO: 2 in Sequence Listing including substitution,  
deletion, insertion, addition or inversion of one or  
several amino acids, and an activity for binding to  
sucrose.

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2. A DNA which encodes a protein defined in the  
following (A) or (B):

(A) a protein which has the amino acid sequence of  
SEQ ID NO: 2 in Sequence Listing;

15 (B) a protein which has the amino acid sequence of  
SEQ ID NO: 2 in Sequence Listing including substitution,  
deletion, insertion, addition or inversion of one or  
several amino acids, and an activity for binding to  
sucrose.

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3. The DNA according to Claim 2, which is a DNA  
defined in the following (a) or (b):

pg-49 (a) a DNA which contains the nucleotide sequence  
of the nucleotides 3779 to 5761 of SEQ ID NO: 1 in  
Sequence Listing;

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(b) a DNA which is hybridizable with a nucleotide  
sequence containing the nucleotide sequence of the

nucleotides 3779 to 5761 of SEQ ID NO: 1 in Sequence  
Listing under stringent conditions, and encodes a  
protein having an activity for binding to sucrose.